



# Javier Rosales Lozano

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## PROFESSIONAL PROFILE

Computer Engineering student aiming to fully develop in my profession by participating in technological and innovative projects where I can apply my knowledge and skills to create value, enjoy my work, and maintain a balance between stability and professional growth. Motivated by the trust and support received throughout my education, with a strong desire to actively pursue my goals while learning and growing every day.

## ACADEMIC BACKGROUND

09/2022 - Present

**University Carlos III de Madrid | Leganés (Madrid)**

**Pursuing a Bachelor's Degree in Computer Engineering**

09/2020 - 05/2022

**IES La Senda | Getafe (Madrid)**

**High School Diploma: Science Track**

## OUTSTANDING PROJECTS

### **MyHomie! - Design of an Interactive System following Design Thinking**

Technologies: JavaScript, Node.js, APIs REST, Socket.IO, Express, HTML/CSS

- Home automation application powered by an Express server.
- Includes gesture recognition using a mobile device and voice command integration.

### **Predictive model for employee resignation**

Technologies: Python, Scikit-Learn, Pandas, Numpy, Matplotlib

- Use of supervised ML algorithms.
- Results analysis using domain-specific metrics.

### **Distributed Application for Message and File Passing**

Technologies: Python, C, Web Services, Sockets, RPC/ONC

- Client-server communication across different programming languages.
- File transfer between clients, RPC server, and web service.

## WORK EXPERIENCE

10/2022 - Present

**Private tutor | Getafe (Madrid)**

- Deliver in-person and online lessons using digital platforms.
- Provide intensive preparation for official exams and entrance tests.
- Adapt teaching methods to individual student needs to maximize learning outcome.

## SOFT SKILLS

- Organizational skills - Teamwork
- Project planning - Initiative and proactivity
- Problem solving - Conflict mediation and management

## TECHNICAL SKILLS

- **Python:** Object-Oriented Programming, Procedural Programming, Data Science, Software Engineering, Artificial Intelligence, Machine Learning, Cryptography, Distributed Systems (TCP/IP)
- **C / C++:** Concurrency, Distributed Systems (TCP/IP, POSIX Message Queues, ONC RPC), Web Services, Lexical/Syntax Analysis (Flex & Bison), Functional Programming, Assembly Programming (RISC-V)
- **SQL:** Database Management
- **HTML5 / CSS:** Advanced Web Development
- **JavaScript:** Interactive System Development (Node.js, REST APIs, Express/Socket.IO)
- **Excel:** Advanced Knowledge, Database Handling
- **GitHub:** Version Control

## LANGUAGES

**Spanish:** Native

**English:** B2 Level, Cambridge English First (FCE)

## INTERESTS

### **Black Belt in Judo, 1st Dan (Spanish Judo Federation)**

- Promotes the values of judo: discipline, respect, honesty, and self-control